TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-24-05** **Date: 26-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Providing Flooring to School Building at Vinayakanagra, Kuvempunagara and Singapura school in ward no.11 (Kuvempunagara), Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/131/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-02-17
Sample ID No	:	2017-02-24-05-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	25-02-2017 to 25-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.12	–
2	Finess by Air permeablity method (m^2/kg, Min)	277.8	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	210 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-24-05** **Date: 26-03-2017**

Sample ID No : **2017-02-24-05-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	300 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	30.5N/mm^2	Not less than 27 N/mm^2
	7 Days	41.5N/mm^2	Not less than 37 N/mm^2
	28 Days	57.0N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-24-05** **Date: 06-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Providing Flooring to School Building at Vinayakanagra, Kuvempunagara and Singapura school in ward no.11 (Kuvempunagara), Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer Reference	:	BBMP/EE/BTP/WO/131/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-02-17
Sample ID No	:	2017-02-24-05-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	25-02-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	195	195	3.9	96.1	95-100
3	10 mm	2560	2755	55.1	44.9	25-55
4	4.75 mm	2200	4955	99.1	0.9	0-5
5	Pan	45	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-24-05** **Date: 06-03-2017**

Sample ID No : 2017-02-24-05-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**13.8**	_
2	Elongation Index(%)	**11.3**	_
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.55**	_
6	Water Absorption(%)	**0.19**	_
7	Ten percent fine value(KN)	**197**	_
8	Aggregate crushing Value(%)	**24.6**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	**23.2**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-24-05** **Date: 06-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Providing Flooring to School Building at Vinayakanagra, Kuvempunagara and Singapura school in ward no.11 (Kuvempunagara), Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/131/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-02-17
Sample ID No	:	2017-02-24-05-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	25-02-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	186	186	3.72	96.3	95-100
3	20 mm	1890	2076	41.52	58.5	30-70
4	10 mm	1950	4026	80.52	19.5	10-35
5	4.75 mm	850	4876	97.52	2.5	0-5
6	Pan	124	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-24-05** **Date: 06-03-2017**

Sample ID No : 2017-02-24-05-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**11.4**	_
2	Elongation Index(%)	**10.2**	_
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.53**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.24**	_

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Prepared by
Harshitha

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-02-24-05** **Date: 06-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Providing Flooring to School Building at Vinayakanagra, Kuvempunagara and Singapura school in ward no.11 (Kuvempunagara), Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/131/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-02-17
Sample ID No	:	2017-02-24-05-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	25-02-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	69	69	6.9	93.1	90-100	90-100	90-100	95-100
3	2.36 mm	108	177	17.7	82.3	60-95	75-100	85-100	95-100
4	1.18 mm	92	269	26.9	73.1	30-70	55-90	75-100	90-100
5	600 micron	239	508	50.8	49.2	15-34	35-59	60-79	80-100
6	300 micron	336	844	84.4	15.6	5-20	8-30	12-40	15-50
7	150 micron	115	959	95.9	4.1	0-10	0-10	0-10	0-15
8	Pan	41	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-02-24-05** **Date: 06-03-17**

Sample ID No : 2017-02-24-05-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.80	_
2	Specific Gravity	2.57	_
3	Material finer than 75 micron(%)	4.5	Not more than 15 percent

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-30-01** **Date: 05-04-17**

Customer : Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura, Sub Division, BBMP, Bangalore.

Project Name : Providing Flooring to School Building at Vinayakanagra, Kuvempunagara and Singapura school in ward no.11 (Kuvempunagara), Vidyaranyapura sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003

Customer's Reference : BBMP/EE/BTP/WO/131/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-17

Sample ID No : 2017-03-30-01-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	27/03/2017	03/04/2017	150.98 X 150.34 X 150.55	22698	8.280	270.1	11.9	11.7
2	PCC	M15	27/03/2017	03/04/2017	150.65 X 150.32 X 150.64	22646	8.211	274.0	12.1	
3	PCC	M15	27/03/2017	03/04/2017	150.23 X 150.22 X 150.19	22568	8.321	252.8	11.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-30-01** **Date: 25-04-17**

Customer : Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura, Sub Division, BBMP, Bangalore.

Project Name : Providing Flooring to School Building at Vinayakanagra, Kuvempunagara and Singapura school in ward no.11 (Kuvempunagara), Vidyaranyapura sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003

Customer's Reference : BBMP/EE/BTP/WO/131/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-17

Sample ID No : 2017-03-30-01-02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	27/03/2017	24/04/2017	150.10 X 150.11 X 150.32	22532	8.334	414.6	18.4	18.0
2	PCC	M15	27/03/2017	24/04/2017	150.42 X 150.23 X 150.53	22598	8.432	397.7	17.6	
3	PCC	M15	27/03/2017	24/04/2017	150.53 X 150.00 X 150.33	22580	8.165	408.7	18.1	

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